



### **EPARTMENT OF COMMERCE** Patent and Travemark Office

## NOTICE OF ALLOWANCE AND ISSUE FEE DUE

QM12/0210

MEDTRONIC INC 7000 CENTRAL AVE NE MINNEAPOLIS MN 55432

APPLIC	ATION NO.	ON NO. FILING DATE		тоти	AL CLAIMS	EXAMINER AND GROUP ART UNIT			DATE MAILED		
	08/937,	443	09/25	/97	028	EVANISKO	, G	;	3737	02/10/0	
First Named Applicant	RENIR	IE,			. 35	USC 154(b)	term ext. =	(	Days		
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INVENTION

SYSTEM AND METHOD FOR RESPIRATION - MODULATED PACING

ATTY'S DOC	KET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN.	YPE	SMALL E	NTITY	FEE DUE		DATE DUE
Ü	P-4782	60	7-020.000	H96	UTI	LITY	NO	\$1210	.00	05/10/0

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

#### HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
  - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
  - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Application No. 08/937,443

Applicant(s)

Renirie et al

Examiner

George Evanisko

Group Art Unit 3737



All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.
∑ This communication is responsive to <u>the amendment of 1/28/00</u> .
∑ The allowed claim(s) is/are 1-14, 18-26, 28, 30, 31, 34, and 35
The drawings filed on are acceptable.
☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☐ received.
received in Application No. (Series Code/Serial Number)
$\square$ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
*Certified copies not received:
☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).
Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
🛮 because the originally filed drawings were declared by applicant to be informal.
including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto or to Paper No
including changes required by the proposed drawing correction filed on, which has been approved by the examiner.
including changes required by the attached Examiner's Amendment/Comment.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal lettter addressed to the Official Draftsperson.
☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.
Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.
Attachment(s)
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s)
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
⊠ Examiner's Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material
Examiner's Statement of Reasons for Allowance

# 14/0

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#### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas Woods on 2/8/00.

2. The application has been amended as follows:
In the specification, page 20, line 3, after "n. vagus)", the following has been inserted.

--or the sympathetic nerve system--.

In line 4, after "expiration", --and/or inspiration" has been inserted.

In claim 1, line 3, after "to" the following has been inserted

one of a vagus nerve and sympathetic nerve system to--.

In claim 4, line 2, "an" has been deleted and --the-- has been inserted.

Ki claim 9, line 3, "or" has been deleted and --of-- has been inserted. In line 3, "a" has been deleted and --said-- has been inserted.

In claims 10 and 11, line 3, "or" has been deleted and --of-- has been inserted.

In claim 12, line 4, "during patient respiration" has been deleted and

? 3 --in response to a said indicated inspiration onset—has been inserted.

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Claims 15-17, 27, 29, 32, 33, and 36 and have been canceled.

In claim 18, line 3, "said heart" has been deleted and the following has been inserted

--one of a vagus nerve and sympathetic nerve system of said patient--.

Inyclaim 21, before "comprising", --further-- has been inserted.

In claim 26, line 4, "at least one position" has been deleted and

C5 -- one of a vagus nerve and sympathetic nerve system - has been inserted

In line 5, "and" has been deleted.

In claim 28, line 1, "27" has been deleted and --26-- has been inserted.

In claim 30, line 1, "29" has been deleted and --26-- has been inserted. In line 4, "pacing pulses" has been deleted and --stimulus signals" has been inserted.

In claim 31, line 9, delete "and" and the following has been inserted

--to one of the vagus nerve and sympathetic nerve system--.

3. The following is an examiner's statement of reasons for allowance: The subject matter of the independent claims could either not be found or was not suggested in the prior art. The subject matter not found was the use of vagus nerve or sympathetic nerve system pacing to control the heart rate as a function of respiration and/or metabolic demand parameters.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Evanisko whose telephone number is (703) 308-2612.

GRE

February 8, 2000

MC

George R. Everisho



SERIAL NO.

# UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

# **Notification of Informality**

IIAL NO.			APPLICANT(S)		ATTACHMENT TO PAPER NO.	7
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031	937	793				
			nal for the reason(s) checked below.			
			to correct these informalities and avoid			
1.	this app	h (or decla lication b 8 is requir	aration) is defective for the reason(s) che y the above Serial Number and title in ed.	ecked below. A DE compliance with Ti	CLARATION (or oath) itle 37 Code of Federal R	dentifying egulations
			.65 has not been complied with in that:			•
			terms "original" and/or "first" are omi-			
			clause re "public use," "on sale" or "pri	nted publication" is	omitted.	
			licant's citizenship is omitted.			
			erence to "sole" or "joint" inventorship		has been used improperly	у.
			mproper oath or declaration form has be date of execution is omitted, incomplet		a months prior to filing	
			Notary's signature has been omitted, or			
		/. ☐ The	Notary's seal and venue differ or are omi	tted or the jurat has	been omitted (MPEP section	on 604.02).
		o. □ The 9. □ The	consular certificate has been omitted of	or is signed by an of	ficer whose identity or au	ithority to
		sign	has been omitted. (see 37 CFR 1.66 (a))	)		
		refe	papers are not properly ribboned. The to the papers as filed.			
		1.65	declaration clause regarding " acknowledge (a)(1) has been omitted.			
		by 3	reference to a possible earlier filing of 7 CFR 1.65(a)(1) is omitted.			
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		_	alled alterations have been made to the o	-		56)
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	E. 🔀	Other —	The signature of the fi	-s's inventu	is missing	•••
2. 🗆			efective. Applicant is required to provide			
	A. 🗆	A stateme	ent over applicant's signature giving his bbreviation" as required by 37 CFR 1.5	her complete name	e "including at least one g	iven name
			uthority of the legal representative und	ler 37 CFR 1.44.	,	
			ct in compliance with 37 CFR 1.72(b).	÷		
		and/or un	y executed affidavit signed by all of dated alterations to page(s)late of the oath or declaration, an amen	were	e made. If such changes	were made
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	ENCL	OSED:				
			nformation Concerning Patents"			
			patent to assist applicant in making corr	ections.		
			DECLARATION for completion by ap			